



UNMANNED SURFACE VEHICLE

#UnmannedSystems



ELECTRONIC WARFARE

AUTONOMOUS NAVIGATION AND OPERATION

35+ KTS SPEED

HIGH MANEUVERABILITY

LOS-BLOS COMMUNICATIONS & MESH NETWORK

INTEROPERABILITY AND FLEXIBILITY

HYBRID TASK ORGANIZATION & SWARM OPERATIONS

NETWORK CENTRIC/ENABLED OPERATIONS



aselsan



UNMANNED SURFACE VEHICLE

MARLIN 100 EW is a new generation USV developed for Electronic Warfare (EW) missions. Its modular design architecture allows different payload configurations.

MARLIN 100 EW can be used in support of base/port/critical infrastructure protection and amphibious operations. Its modular design architecture allows different payload configurations. MARLIN 100 EW is equipped with advanced communication and positioning systems; can operate uninterruptedly under Communication / GNSS denied environments. ASELSAN in-house autonomy architecture also ensures hybrid swarm and joint operations.

General Features

- Inertial Navigation System
- Dynamic Positioning System
- Active Stabilization System
- Radar, AIS
- Obstacle Avoidance Sonar
- Anti-Jam GNSS
- EO/IR Camera System
- STANAG 4817 Compatible

Autonomy Features

- Mission Planning
- Safe Autonomous Navigation with Sensor Fusion
- Fixed and Moving Obstacle Detection and Dynamic Path Planning
- Day/Night Operations
- Operation under Comms/GNSS Denied Environment



Technical Features

- Length : 15 m
- Width : 3.85 m
- Weight : 22 tons
- Max. Speed : ≥ 35 kts
- Endurance : 72 hours
- Propulsion System : Diesel Engines
- Payload Capacity : ≥ 4 tons

Payload Options

- Radar Electronic Warfare System
 - ARES-2NC ESM System
 - AREAS-2NC ECM System
- SMASH 200/12.7L Remote Controlled Weapon Weapon

Communication Systems

- Broadband Satellite
- Narrowband Satellite
- RF Line-Of-Sight / Mesh Network
- 4G / LTE

Control Station

- Mobile Container
- Navigation and Mission Planning / Execution
- Control of Payload and Subsystems
- Data Display
- Live Image / Data Transfer

Operational Capabilities

- Electronic Warfare Missions
- High Value Unit Protection
- Contribution to the Recognized Maritime Picture
- Transportation to the Mission Area from Port or Logistics Support Ships, Amphibious Ships
- Intelligence, Surveillance and Reconnaissance
- Autonomous or Remote-Control Modes
- Joint Operations with other Manned / Unmanned Platforms



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.